In the Claims:

Please amend Claims 1-14 as follows . A complete listing of the claims are listed below with proper claim identifiers.

Claim 1 (Original) A method to determine the change in weight in parts in a furnace during CVI/CVD process, comprising the steps of: measuring the change in weight of the entire furnance, including contents, during the CVI/CVD process.

Claims 2 – 14 (cancelled).

Claim 15 (new) A method to determine the change and weight of parts in a furnace during a CVI/CVD process comprising the steps of measuring the change in weight of the entire furnace, including contents, during the CVI/CVD process, monitoring the rate of weight change, and changing the furnace temperature to achieve the desired weight gain.

Claim 16 (new) A method to achieve a desired weight gain by determining the change and weight of parts in a furnace during a CVI/CVD process comprising the steps of measuring the change in weight of the entire furnace, including contents, during the CVI/CVD process, monitoring the rate of weight change, monitoring the reactant gas flow into said furnace and changing the reactant gas flow to achieve the desired weight gain.

Claim 17 (new) A method to achieve a desired weight gain by determining the change and weight of parts in a furnace during a CVI/CVD process comprising the steps of measuring the change in weight of the entire furnace, including contents, during the CVI/CVD process, monitoring the rate of weight change, monitoring the internal furnace pressure and changing the internal furnace pressure to achieve the desired weight gain.

Claim 18 (new) A method to achieve a desired weight gain by determining the change and weight of parts in a furnace during a CVI/CVD process comprising the steps of measuring the change in weight of the entire furnace, including contents, during the CVI/CVD process, monitoring the rate of weight change, monitoring the reactivity of the reactant gas and changing the reactant gas flow to achieve the desired weight gain.